

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification to the existing traffic control signal at MD 190 & MD 614 in Montgomery County.
MD 190 runs in an east-west direction.

II. INTERSECTION OPERATION

The modification includes replacing the cabinet, signal heads, signs, span wire and associated wiring due to aging.

III. SPECIAL NOTES

- 1) It is the responsibility of the Contractor to reroute the existing interconnect cable into the cabinet. In the event that there is insufficient cable to reach the new cabinet, a splice cabinet should be installed on the strain pole on the cabinet corner. The contractor will then be responsible for rerouting the interconnect cable to this splice cabinet, and installing 6-pair interconnect cable from the splice cabinet to the controller cabinet.
- 2) All disconnecting and splicing of interconnect cable shall be performed by Montgomery County forces.
- 3) The Contractor shall inform Mr. Emil Wolanin at (301) 217-2208 72 hours in advance of beginning work.
- 4) All existing 2-conductor (aluminum Shielded) will be removed and new 2-conductor cable will be installed to insure proper connection to new cabinet and to save on down-time.

EQUIPMENT LISTS

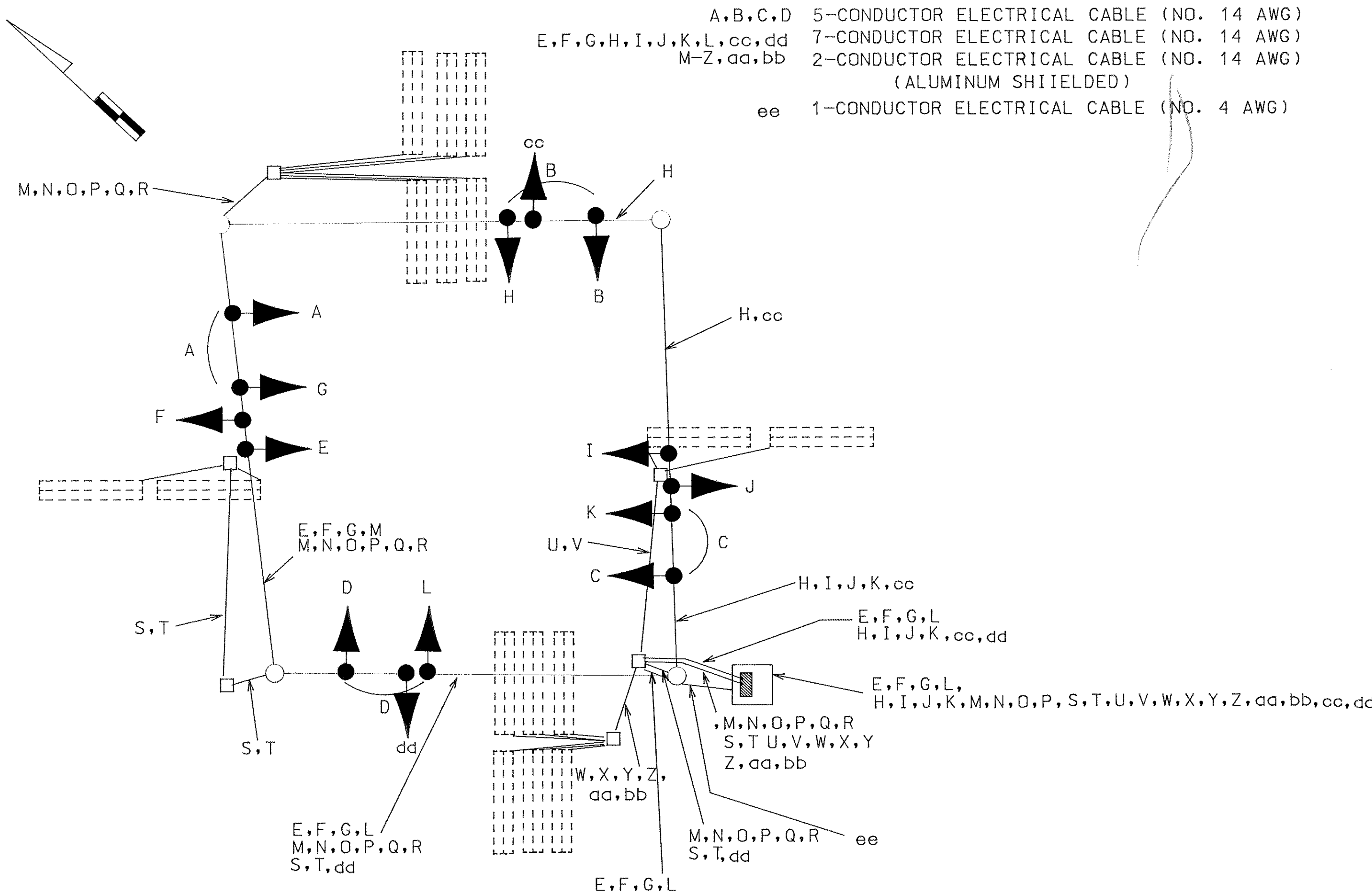
A. Equipment to be supplied by S.H.A.

ITEM NO.	QUANTITY	DESCRIPTION
9000	4 each	12" one-way, three-section (RA,YA,GA) signal head (polycarbonate) - span mount
9000	2 each	8" R,Y,G, 12" G Arrow, one-way, four-section signal head - span mount
9000	2 each	12" one-way, four-section (R,Y,G,GA) signal head (polycarbonate) - span mount
9000	6 each	12" one-way, three-section (R,Y,G) signal head (polycarbonate) - span mount
9000	1 each	"6" size , eight-phase with LAU controller & cabinet - base mount
9000	2 each	R3-5L sign, 30" x 36" (Left Turn Only) - span mount
9000	2 each	R3-6A sign, 30" x 36" (COMBINATION STRAIGHT & LEFT TURN)
9000	2 each	D3-2 SNS, dualface (Var. x 16") - span mount. "Goldsboro Rd, 6000 and "Goldsboro Rd. 5900 (dualface)
9000	71.6 S.F.	Signs
		1 each Associated shield assembly "EAST,MD190, RIGHT ARROW" (48" x 75") pole-mounted hardware
		1 each Associated shield assembly "EAST,MD190, LEFT ARROW" (30" x 51") pole-mounted hardware
		1 each Associated shield assembly "EAST,MD190, RIGHT ARROW" (30" x 51") pole-mounted hardware
		1 each Associated shield assembly "EAST,MD190, RIGHT ARROW" (48" x 75") pole-mounted hardware

B. Equipment to be furnished and installed by the Contractor.

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 each	Mobilization
8001	2.0 C.Y.	Concrete foundation
8003	3 each	Install conduit bend in existing concrete base
9009	1 each	F/I 3" weatherhead
8011	520 L.F.	F/I steel span wire -3/8" diameter
8013	12 each	Install signal head (any type)
8021	1 each	Install controller and cabinet - base mount
8031	40 L.F.	F/I 2" electrical conduit - PVC (Schedule 40) - trenched
8032	60 L.F.	F/I 2" electrical conduit - PVC (Schedule 80) - slotted
Neg.	20 L.F.	F/I 2" electrical conduit - PVC (Schedule 80) - trenched
8034	30 L.F.	F/I 3" electrical conduit - PVC (Schedule 40) - trenched
8037	30 L.F.	F/I 4" electrical conduit - PVC (Schedule 40) - trenched
8043	1 each	Install meter socket (furnished by the power company)
8045	1 each	F/I disconnect switch (Ref: Section 822)
8048	1 each	Ground Rod
8055	2890 L.F.	F/I 2-conductor electrical cable (No 14 AWG) Aluminum Shielded
8058	80 L.F.	F/I electrical cable, 5-conductor, No. 14 AWG
8059	1460 L.F.	F/I electrical cable, 7-conductor, No. 14 AWG
8063	30 L.F.	F/I electrical cable, 1-conductor, No. 6 AWG for grounding
8064	30 L.F.	F/I electrical cable, 1-conductor, No. 4 AWG for service
8068	71.6 S.F.	Install ground mounted sign
8069	120 S.F.	Install overhead sign
Neg.	4 each	Green paint for poles

WIRING DIAGRAM



PHASE CHART

EXISTING PHASING TO BE UTILIZED.

REVISIONS		APPROVALS		MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION	
		ORIGINAL			
⑧ REPLACE CABINET, SIGNAL HEADS, SIGNS AND SPAN WIRE DUE TO WEARNESS. POLES TO BE RE-PAINTED. 11/95		ASST. DIVISION CHIEF, TEDD		MD 190 at MD 614 Montgomery County	
MEL		NOTED			
A 6-12-91 ADD SIGNAL HEADS, SIGNS, LOOPS AND ASBUILT. S.H.A. NO. M-651-501-377		ASST. DISTRICT ENGINEER, TRAFFIC		DATE 11/6/95	
R.R.Z.		ON		DRAWN BY: _____	
		PLAN		CHECK BY: _____	
		DIRECTOR, OFFICE OF TRAFFIC & SAFETY		F.A.P. NO. _____	
				S.H.A. NO. _____	
				COUNTY _____	
				SCALE: _____	
				PLAN SHEET NO.: TS-317961	
				SHEET NO. 2 OF 2	

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